

Supported by:



**Title: Masterclass in Marine Renewable Energy  
1-day Course & Workshop**

**Date/Time: Monday, 24<sup>th</sup> June 2019 / 09:00 hrs to 17:00 hrs**

**Venue: Mercure Singapore Bugis,  
122 Middle Road, Singapore 188973**

Marine renewable energy is the power harnessed from the wind, waves and tide and is typically regarded as an abundant, inexhaustible and non-polluting resource that can play a significant role in combating climate change.

### **Course Synopsis**

This ½ day course introduces alternative sources of energy to fossil fuels; with an emphasis on marine renewable energy resources and their technology and application. Emerging trends will be examined in the context of socio-economic drivers using examples of technological innovations in wind, wave power, ocean thermal energy conversion and tidal. The key design, installation and operational considerations that drive the development of fixed and floating offshore wind farms will be explored including a closer look at the Hywind Scotland Project, the world's first floating wind farm. In addition, examples of proto-type wave and tidal energy systems will be provided and the key barriers to these technologies will be discussed. The course concludes with insights into the World's present and future energy trends before an open Q&A session.

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## Offshore Wind Workshop

This ½ day workshop compliments the morning's lecture format ½ day Marine Renewable Energy course by exploring the primary technical facets of a typical offshore wind farm project in its execution phase from the perspective of the wind farm developer. The aim of the workshop is to nurture deeper insights into the technical challenges faced by wind farm developers and project level decision making associated to design, fabrication and installation of an offshore wind farm. To that end, the East Anglia ONE offshore wind farm is used as a skeleton case study to explore the execution of a utility scale offshore wind farm development, which when consented was the UK's largest wind farm. The format of the workshop follows a series of short briefings, each followed by facilitated group exercises that culminate in a final presentation from each group.



**Speaker's biography: Dr. Riz Sheikh** PhD DIC MEng ACGI CEng CMarEng MIMarEST  
Metocean Specialist, Metocean Hub Ltd.



Dr Rizwan Sheikh (Riz) is a Metocean Specialist with close to 20 years “hands-on” experience. He received a First-Class Master of Engineering Degree from Imperial College in 1996, for which he was awarded the Sir Bruce White Prize for outstanding achievement in Fluid Mechanics. He subsequently went on to complete a doctoral thesis in Applied Hydrodynamics in 2004 under the supervision of Professor Christopher Swan of Imperial College London. More recently in 2016 Riz successfully completed the University of Stanford course on Machine Learning.

Over the course of Riz's career he's supported numerous major Oil & Gas projects when serving as a Technical Authority in Shell and Petronas Carigali. He's provided a full range of consultancy services and conducted R&D for BMT, DNV-GL (formerly Nobel Denton) and Fugro as well as published several conference and journal publications. In May 2017 Riz incorporated Metocean Hub Limited through which he supports the installation of the East Anglia ONE OWF as well as providing consultancy services to a wide range of organisations as well as serving as Expert Witness for Metocean related matters. Riz is currently the Course Lead for the IMarEST Metocean Awareness Course and regularly delivers customized industry courses on Metocean Engineering & Data Science to clients in the offshore sector.

## Registration Form

### Masterclass in Marine Renewable Energy Course

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#### Delegate Information

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Job Title: \_\_\_\_\_

Company Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

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#### Registration Options

**IMarEST Member rate** **S\$ 680**

**IMarEST Non-Member rate** **S\$ 760**

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#### Payment Method

Please invoice       Cheque       Bank transfer

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For full details on terms and conditions including cancellation policy please visit:  
[www.imarest.org/events](http://www.imarest.org/events)

Delegates will receive one year's complimentary affiliate IMarEST membership.

Email the completed form to: [jenny.seow@imarest.org](mailto:jenny.seow@imarest.org) or send by post to:

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